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STRUCTURE FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2  
 DICTIONARY FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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REGISTRY includes numerically searchable data for experimental and  
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 experimental property data in the original document. For information  
 on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

-> d que sta 112  
 L7 STR



VAR G1=NH2/8/11

VAR G2=O/S

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ELEVEL IS LIMITED

ECOUNT IS M4-X6 C M1-X2 N AT 2

ECOUNT IS E6 C AT 3

ECOUNT IS E3 C E1 N E1 S AT 6

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE

L10 149228 SEA FILE=REGISTRY ABB=ON PLU=ON (NC5 OR NC6 OR NC2NC2 OR  
 NC2NC3)/ES AND NCSC2/ES

L12 22 SEA FILE=REGISTRY SUB=L10 SSS FUL L7

100.0% PROCESSED 136538 ITERATIONS

22 ANSWERS

SEARCH TIME: 00.00.02

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L1 1 SEA FILE=HCAPLUS ABB=ON PLU=ON US20070049619/PN

L2 TRANSFER PLU=ON L1 1- RN : 82 TERMS

L3 82 SEA FILE=REGISTRY ABB=ON PLU=ON L2

L10 149228 SEA FILE=REGISTRY ABB=ON PLU=ON (NC5 OR NC6 OR NC2NC2 OR  
 NC2NC3)/ES AND NCSC2/ES

L17 STR



VAR G1=NH2/8/11

VAR G2=O/S

REP G3-(1-4) C  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ELEVEL IS LIMITED  
ECOUNT IS M4-X6 C M1-X2 N AT 2  
ECOUNT IS E6 C AT 3  
ECOUNT IS E3 C E1 N E1 S AT 6

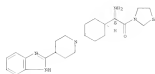
GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE  
L19 9 SEA FILE=REGISTRY SUP=L10 SSS FUL L17  
L20 9 SEA FILE=REGISTRY ABB-ON PLU-ON L19 AND L3

=> d ide can l14 tot

114 ANSWER 1 OF 1 REQUESTS COPYRIGHT 2006 ACS ON STM  
 00 01111-10-5 REQUEST  
 03 Entered STM 15 Jul 2005  
 04 Thiazolium, 5-(17H-benzotriaza-8,9-dihydro-2H-benzocyclo-2-yl)-3-  
 05 pyridinyl(cyclohexyl)acetyl- (9CI) (CA INDEX NAME)  
 06 STEREOBOND  
 07 C13 H23 N5 O S  
 08 CSM  
 09 CA

ABSOLUTE STEREOCHEMISTRY



\*\*\*PROPERTY DATA AVAILABLE IN THE "PROP" PORTAL\*\*\*

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FILE COVERS 1907 - 9 Apr 2008 VOL 148 ISS 15  
FILE LAST UPDATED: 8 Apr 2008 (20080408/ED)

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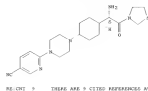
This file contains CAS Registry Numbers for easy and accurate substance identification.

-> d bib abs hitrn fhitr 122 tot

J-3 ANSAR 3 OF 10CMPLR COPYRIGHT 2009 ACS on ETH  
 AN 2015/5485/5 ROAFLDS  
 DI 14370220  
 TI Preparation of polymeric compounds having Nucleic acid moiety as  
 GFF-IV INHIBITORS  
 IS Akashdeep, Pankaj; Kojima, Yoshihiro  
 DA Mitsubishi Pharma Corporation, Japan  
 JO PCT Int. Appl., 54 pp.  
 CO JAPAN: PXXXXX

122 ANKOR3 1 OF 10CPUGAR 03070102 2006 ACS on 3/11 (CSciLine)  
[propen] of piperidine compds having a  $\alpha$ -amino acid moiety as  
[500-15] inhibitors for treatment of diabetes and obesity)  
EN 214297-48-9 HCNPLAS  
CN Ethanolamine, 3-[(2S)-amino-2-oxo-4-(4-{5-cyano-2-pyridinyl}-3-  
piperazinyl)ethyl)acetyl]- (SCI) (CA INDEX NAME)  
  
Absolute stereochemistry

### Absolute stereochemistry



RE: CHT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

[illegible]

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

[illegible]

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FILE 'USPATFULL' ENTERED AT 14:25:36 ON 09 APR 2008
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FILE 'USPATOLD' ENTERED AT 14:25:36 ON 09 APR 2008
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FILE 'USPAT2' ENTERED AT 14:25:36 ON 09 APR 2008
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-> d bib abs hitrn fhitstr 125 tot
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151 ANSWER 1 OF 1 USPTO/FILL on ETS  
 AB 100-112346 RECAPITUL  
 TI Image forming apparatus and image forming method  
 TS Akashi, Masao, Osaka, JAPAN  
 DI 85-037009143 A1 19870303  
 AI 10048-0016643 A1 19880118 (1)  
 WA 10048-0016643 A1 19880118  
 PR  
 PRS  
 APPLICATOR  
 SRP Arthur S. Kishner, Carolyn A. Tuerksen LLP, 50 Sacramento Street, P.O.  
 Box 1100, Berkeley, CA, 94701-1100, US  
 CMB Number of Claims 1  
 BCL  
 DMB 3 (Forward Request)

LA US 93

CAZ INVENTION IS AVAILABLE FOR THIS PATENT.  
 AB The present invention provides an image forming apparatus which can, by suitably leveling the particles which are non-colloquially adhered to the surface of the photosensitive by using a leveling means having a predevelopment stage, and can maintain the excellent image characteristics for a long period even when a contact charging method is adopted as a charging means and an image forming method which uses the Lange coating apparatus. In an image forming apparatus which non-colloquially adheres a charging means, a developing means, a transferring means and a charge eliminating means around an electrophotographic image, the charging means is constructed of a contact-type charging means, and a leveling means which levels particles on a surface of the electrophotographic photosensitive is arranged between the transferring means and the charge eliminating means.

CAZ INVENTION IS AVAILABLE FOR THIS PATENT.

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-> b reg  
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STRUCTURE FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2  
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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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<http://www.cas.org/support/stngen/stndec/properties.html>

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 L2 TRANSFER PLU=ON L1 1- RN : 82 TERMS  
 L3 82 SEA FILE=REGISTRY ABB=ON PLU=ON L2  
 L26 STR



VAR G1=NH2/8/11  
 VAR G2=O/S  
 REP G3=(1-4) C  
 VAR G4=16/17/21/O/S  
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 NSPEC IS RC AT 16  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ELEVEL IS LIMITED  
 ECOUNT IS E6 C AT 3  
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 L29 15 SEA FILE=REGISTRY SUB=L27 SSS FUL L26  
 L30 15 SEA FILE=REGISTRY ABB=ON PLU=ON L29 AND L3

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FILE COVERS 1907 - 9 Apr 2008 VOL 148 ISS 15  
FILE LAST UPDATED: 8 Apr 2008 (20080408/ED)

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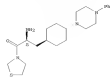
This file contains CAS Registry Numbers for easy and accurate substance identification.

-> d bib abs hitrn fhitr 131 tot

L12 ANABOR 1 OF 1 HCAPLES COPYRIGHT 2018 ACS on BTH  
 AN 2015/5615/5 HCAPLES  
 DS 143170210  
 T1 Preparation of piperazine compounds having Mucic acid moiety as  
 DPP-IV inhibitors  
 I8 Akatsuchi, Fumihiko| Hapensti, Yoshihiro  
 DA Mitsubishi Pharma Corporation, Japan  
 30 PCT Int. Appl., 54 pp.  
 OI58H: P10002  
 DT Patent  
 I7 JAPANESE  
 16

CH	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16	CH17	CH18	CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27	CH28	CH29	CH30	CH31	CH32	CH33	CH34	CH35	CH36	CH37	CH38	CH39	CH40	CH41	CH42	CH43	CH44	CH45	CH46	CH47	CH48	CH49	CH50	CH51	CH52	CH53	CH54	CH55	CH56	CH57	CH58	CH59	CH60	CH61	CH62	CH63	CH64	CH65	CH66	CH67	CH68	CH69	CH70	CH71	CH72	CH73	CH74	CH75	CH76	CH77	CH78	CH79	CH80	CH81	CH82	CH83	CH84	CH85	CH86	CH87	CH88	CH89	CH90	CH91	CH92	CH93	CH94	CH95	CH96	CH97	CH98	CH99	CH100	CH101	CH102	CH103	CH104	CH105	CH106	CH107	CH108	CH109	CH110	CH111	CH112	CH113	CH114	CH115	CH116	CH117	CH118	CH119	CH120	CH121	CH122	CH123	CH124	CH125	CH126	CH127	CH128	CH129	CH130	CH131	CH132	CH133	CH134	CH135	CH136	CH137	CH138	CH139	CH140	CH141	CH142	CH143	CH144	CH145	CH146	CH147	CH148	CH149	CH150	CH151	CH152	CH153	CH154	CH155	CH156	CH157	CH158	CH159	CH160	CH161	CH162	CH163	CH164	CH165	CH166	CH167	CH168	CH169	CH170	CH171	CH172	CH173	CH174	CH175	CH176	CH177	CH178	CH179	CH180	CH181	CH182	CH183	CH184	CH185	CH186	CH187	CH188	CH189	CH190	CH191	CH192	CH193	CH194	CH195	CH196	CH197	CH198	CH199	CH200	CH201	CH202	CH203	CH204	CH205	CH206	CH207	CH208	CH209	CH210	CH211	CH212	CH213	CH214	CH215	CH216	CH217	CH218	CH219	CH220	CH221	CH222	CH223	CH224	CH225	CH226	CH227	CH228	CH229	CH230	CH231	CH232	CH233	CH234	CH235	CH236	CH237	CH238	CH239	CH240	CH241	CH242	CH243	CH244	CH245	CH246	CH247	CH248	CH249	CH250	CH251	CH252	CH253	CH254	CH255	CH256	CH257	CH258	CH259	CH260	CH261	CH262	CH263	CH264	CH265	CH266	CH267	CH268	CH269	CH270	CH271	CH272	CH273	CH274	CH275	CH276	CH277	CH278	CH279	CH280	CH281	CH282	CH283	CH284	CH285	CH286	CH287	CH288	CH289	CH290	CH291	CH292	CH293	CH294	CH295	CH296	CH297	CH298	CH299	CH300	CH301	CH302	CH303	CH304	CH305	CH306	CH307	CH308	CH309	CH310	CH311	CH312	CH313	CH314	CH315	CH316	CH317	CH318	CH319	CH320	CH321	CH322	CH323	CH324	CH325	CH326	CH327	CH328	CH329	CH330	CH331	CH332	CH333	CH334	CH335	CH336	CH337	CH338	CH339	CH340	CH341	CH342	CH343	CH344	CH345	CH346	CH347	CH348	CH349	CH350	CH351	CH352	CH353	CH354	CH355	CH356	CH357	CH358	CH359	CH360	CH361	CH362	CH363	CH364	CH365	CH366	CH367	CH368	CH369	CH370	CH371	CH372	CH373	CH374	CH375	CH376	CH377	CH378	CH379	CH380	CH381	CH382	CH383	CH384	CH385	CH386	CH387	CH388	CH389	CH390	CH391	CH392	CH393	CH394	CH395	CH396	CH397	CH398	CH399	CH400	CH401	CH402	CH403	CH404	CH405	CH406	CH407	CH408	CH409	CH410	CH411	CH412	CH413	CH414	CH415	CH416	CH417	CH418	CH419	CH420	CH421	CH422	CH423	CH424	CH425	CH426	CH427	CH428	CH429	CH430	CH431	CH432	CH433	CH434	CH435	CH436	CH437	CH438	CH439	CH440	CH441	CH442	CH443	CH444	CH445	CH446	CH447	CH448	CH449	CH450	CH451	CH452	CH453	CH454	CH455	CH456	CH457	CH458	CH459	CH460	CH461	CH462	CH463	CH464	CH465	CH466
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L11 ANDREWS 1 OF 1 RECAPSULE COPYRIGHT 2008 ACS ON 3TH (C06104460)  
 C06 Thiocollidine, 3-(4-[2-(2-amino-1-cyano-3-[(trans-6-(4-phenyl-1-  
 piper-2-nyl)cyclohexyl)propyl]-5H)]-1H-imidazol-5-yl)-1H-imidazole (C6 INDEX NAME)  
 Absolute stereochemistry\_



RE CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

[illegible]

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-> b uspatall
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-> d bib abs hitrn fhitstr 133 tot
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[illegible]

CAS INDEXING IS AVAILABLE FOR THIS ARTICLE

The present invention provides an image forming apparatus which can, by means of a charging level control system, prevent the occurrence of defects on the surface of the photoconductor by using a leveling means having a predetermined shape, and can maintain the excellent image characteristics for a long period even when a contact-charging method is adopted as a charging means and as charge forming method which uses the above-mentioned leveling means. In addition, the leveling means can sequentially address a charging means, a developing means, a transferring means and a charge eliminating means around an electrophotographic photoconductor; the charging means is constituted of a contact-type charging means, and a leveling means which levels the charges on a substrate after the contact-type charging method is carried out between the transferring means and the charge eliminating

CAS INDEXING IS AVAILABLE FOR THIS PAPER

17	055298-85-0P	055298-86-1P	055298-87-2P	
	055298-88-3P	055298-89-4P	055298-90-5P	
	055298-91-6P	055298-92-9P	055298-93-3P	
	[preparation of pyrazoxone compounds, having $\alpha$ -amino acid moiety as 1490-1V inhibitors for treatment of diabetes and obesity]			
18	068300-13-2P	068300-14-3P	068300-15-2P	

255099-10-6P 255299-21-7D 856726-71-7D  
(preparation of piperazine compds. having  $\alpha$ -amino acid moiety as  
100-IV inhibitors for treatment of diabetes and obesity)

12 055290-05-QP  
(preparation of piperazine compds. having 9-amino acid moiety as  
100-IV inhibitors for treatment of diabetes and obesity)

RD 055100-85-0 DGRXIFULL  
 CN Trianolidine, 3-[(2S)-2-amino-1-oxo-3-[(trans-4-(4-phenyl)piperazinyl)cyclohexyl]propyl]- (SC1) (CA INDEX NAME)

#### Absolute stereochemistry.

112 ADDRESS 2 OF 2 USPATFILL OR INT  
 AN 100756673 USPATFILL  
 TI Alpha-amino acid derivatives and use thereof as medicines  
 TR Akaboshi, Fumihiko, Choshiro, JAPAN  
 IN Hayashi, Toshiharu, Choshiro, JAPAN  
 RA Mitsubishi Pharms Corporation, Osaka-shi, JAPAN, 541-0844 (adv-0.5  
 confidential)

PI	20-2007034619	AI	20070361
AI	200485-000542642	AI	20041210 (10)
	100400-200618478		20041210

PPAI	2003JP-008413846	20031211	20060610	PCR 371 date
DT	Validity			

188P LEYDIG VOET & MATER, LTD. TWO PRESIDENTIAL PLAZA, SUITE 4500, 180 MORRIS  
STETSON AVENUE, CHICAGO, IL. 44601-6731, US

CLASS Number of Claims: 16  
ECL Exemplary Claim: 1  
DRAW No Drawings

AB Compounds represented by the  $\alpha$ -amino acid derivative or a pharmaceutically acceptable salt thereof of the present invention have a therapeutic effect due to a DPP-IV inhibitory action and useful as

pharmaceutical agents for the treatment of HIV infection, relating to a DDP-IV inhibitor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
IT 855298-05-QP 855298-06-1P 855298-03-2P

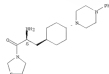
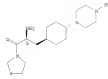
855298-88-3P 855298-89-4P 855298-90-7P  
855298-91-7P 855298-92-9P 855298-93-3P  
preparation of piperazine compds. having  $\alpha$ -amino acid moiety as

IT 855299-13-7P 855299-17-1P 855299-18-2P  
855299-20-4P 855299-21-7P 855326-7a-7P

IV 856294-25-09  
preparation of piperazine compds. having 2-amino acid moiety as  
099-IV inhibitors for treatment of diabetes and obesity)

CS Triazololide, 3-[(2R)-2-amino-2-oxo-3-(4-oxo-4H-pyrido[1,2-a]pyrimidin-5-yl)-1-hydroxyethyl]-1H-imidazole-4-carboxamide

**Absolute stereochemistry.**



-> d his

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L1      1 US20070049619/PN

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L4      68 L3 AND NCSC2/ES
L5      67 L4 AND C6/ES
L6      54 L5 AND (NC5 OR NC6 OR NC2NC2 OR NC2NC3)/ES

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L7      STR
L8      0 L7
L9      1 CYCLOHEXANE/CN
L10     149228 (NC5 OR NC6 OR NC2NC2 OR NC2NC3)/ES AND NCSC2/ES
L11     0 L7 SAM SUB=L10
L12     22 L7 FULL SUB=L10
        SAV TEM J602C1G1/A L12
L13     21 L12 AND L3
L14     1 L12 NOT L13

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L16     0 L14

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L18     1 L17 SAM SUB=L10
L19     9 L17 FULL SUB=L10
        SAV TEM J602C1G11/A L19
L20     9 L19 AND L3

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L22     1 L15,L16

FILE 'REGISTRY' ENTERED AT 13:43:46 ON 09 APR 2008
L23     31 L12,L20

FILE 'HCAOLD' ENTERED AT 13:43:57 ON 09 APR 2008
L24     0 L23

FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 13:44:01 ON 09 APR 2008
L25     2 L23

FILE 'REGISTRY' ENTERED AT 14:35:31 ON 09 APR 2008
L26     STR L17
L27     36100 46.150.1/RID AND NCSC2/ES
L28     1 L26 SAM SUB=L27
L29     15 L26 FULL SUB=L27
        SAV TEM J602C1G11A/A L29
L30     15 L29 AND L3

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FILE 'HCAOLD' ENTERED AT 14:46:45 ON 09 APR 2008
L32     0 L31

FILE 'USPATFULL, USPATOLD, USPAT2' ENTERED AT 14:47:13 ON 09 APR 2008
L33     2 L30
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